

Patent claims

1. A device (1) for the generation of respirational air (9), comprising a
5 compressor (4), from which compressed gas is delivered in a tube (2),
comprising a device for cooling (5) and comprising at least one water
separator (6), wherein the tube (2) contains a tapering passage (9) after
which the water separator (6) is directly connected, the tapering passage
(9) having a cooling effect on the gas in the operating state.
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2. The device (1) as claimed in claim 1, wherein a nozzle (3) is provided in
the tube (2) as a tapering passage (9).
3. The device (1) as claimed in claim 3, wherein the nozzle (3) may have
15 different forms.
4. The device (1) as claimed in any of the preceding claims, wherein a
second water separator (6) is connected before the tapering passage (9).
- 20 5. The device (1) as claimed in claim 4, wherein a further cooling device (5)
for the gas is provided in the device (1) before the tapering passage (9).
6. A method for the generation of respirational air (7), comprising a
compressor (4) which delivers compressed gas, after which this gas is
25 passed through a tapering passage (9) in which the gas is cooled, water
being precipitated and being separated off by means of water separator
(6).
7. The method as claimed in claim 6, wherein the gas or air mixture is
30 cooled by at least one fan (5) on the way to the tapering passage (9).
8. The method as claimed in any of the preceding claims 6 and 7, wherein

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water which has condensed out is separated off in the water separator (6) before the tapering passage (9).